



Container Identification		11000940	
Operator Name			Laboratory Number
EOG RESOURCES CANADA INC.			12ES576778A
Unique Well Identifier	Well Name		
16-21-001-25W1	WASKADA 16-21 PLANT		
Field or Area	Pool or Zone	Sampler's Company	
WASKADA	NOT APPLICABLE	AGAT/ESTEVAN	
Well License	Elevation	Test Type	Test No.
	KB m GRD m		
Test Interval or Perfs mKB		Sampling Point	Name of Sampler
		SALES GAS	
		Separator	Reservoir
		Source	Sampled
		5100	5100
		Temperature	Received
		15	15
			21
Date Sampled	Date Received	Date Analyzed	Date Reported
Feb 21, 2012	Feb 23, 2012	Feb 28, 2012	Feb 28, 2012
Location - Approved By - Title			
Calgary - Gerry Ecker - Reporter			
Other Information			

* Results relate only to the items tested

COMPONENT	Mole Fraction		LIQUID VOLUMES mL / m ³
	As Received	Air & Acid Gas Free	
Hydrogen	0.00013	0.00013	
Helium	0.00062	0.00062	
Nitrogen	0.16881	0.16894	
Carbon Dioxide	0.00074	0.00000	
Hydrogen Sulfide	0.00000	0.00000	
Methane	0.66901	0.66951	
Ethane	0.12534	0.12543	445.2
Propane	0.03214	0.03216	118.1
Isobutane	0.00130	0.00130	5.7
n-Butane	0.00183	0.00183	7.7
Isopentane	0.00006	0.00006	0.3
n-Pentane	0.00003	0.00003	0.2
Hexanes	TRACE	TRACE	0.0
Heptanes+	TRACE	TRACE	0.0
TOTAL	1.00000	1.00000	577.1

Gross Heating Value MJ/m³ 15 °C and 101.325 kPa			
Moisture Free (MJ/m³)	Moisture and Acid Gas Free (MJ/m³)		
37.01	37.04		
Calculated Relative Density Moisture Free			
0.721			
Calculated Density C7+ Fraction (kg/m³) Moisture Free			
688.0			
Calculated pseudo critical properties			
As Sampled		Acid Gas Free	
Ppc (kPa abs)	pTC (K)	Ppc (kPa abs)	pTC (K)
4415.10	200.52	4412.89	200.45
Calculated molecular weight (g/mol)		Calculated C5+ Vapour Pressure (kPa abs)	
Total Sample	C7+ Fraction	138.43	
20.87	100.20		
Field H2S (ppm)		Laboratory H2S (ppm)	
0.00		0.00	

This analysis and calculations are based on GPA 2286, GPA 2145, AGA#5, and TP-17





File No.
12ES576778A

Company
EOG RESOURCES CANADA INC.

UWI / LSD
16-21-001-25W1

BOILING POINT RANGE (°C)	SUMMARY	AIR FREE AS RECEIVED MOLE FRACTION	AIR FREE AS RECEIVED (ppm)	AIR & ACID GAS FREE MOLE FRACTION	AIR FREE AS RECEIVED LIQUID VOLUMES (mL / m ³)
36.2+	Hexanes+ (C6+)	0.00000	< 10	0.00000	0.0032
98.6+	Octanes+ (C8+)	0.00000	0	0.00000	0.0000
125.8+	Nonanes+ (C9+)	0.00000	0	0.00000	0.0000
150.9+	Decanes+ (C10+)	0.00000	0	0.00000	0.0000
174.3+	Undecanes+ (C11+)	0.00000	0	0.00000	0.0000
196.00+	Dodecanes+ (C12+)	0.00000	0	0.00000	0.0000
216.4+	Tridecanes+ (C13+)	0.00000	0	0.00000	0.0000
235.6 - 270.7	Tetradecanes+ (C14+)	0.00000	0	0.00000	0.0000

BOILING POINT RANGE (°C)	GROUPINGS	AIR FREE AS RECEIVED MOLE FRACTION	AIR FREE AS RECEIVED (ppm)	AIR & ACID GAS FREE MOLE FRACTION	AIR FREE AS RECEIVED LIQUID VOLUMES (mL / m ³)
68.9 - 98.6	Heptanes (C7)	0.00000	< 10	0.00000	0.0016
98.6 - 125.8	Octanes (C8)	0.00000	0	0.00000	0.0000
125.8 - 150.9	Nonanes (C9)	0.00000	0	0.00000	0.0000
150.9 - 174.3	Decanes (C10)	0.00000	0	0.00000	0.0000
174.3 - 196.00	Undecanes (C11)	0.00000	0	0.00000	0.0000
196.00 - 216.4	Dodecanes (C12)	0.00000	0	0.00000	0.0000
216.4 - 235.6	Tridecanes (C13)	0.00000	0	0.00000	0.0000
235.6 - 253.6	Tetradecanes (C14)	0.00000	0	0.00000	0.0000
253.6 - 270.69	Pentadecanes (C15)	0.00000	0	0.00000	0.0000

BOILING POINT RANGE (°C)	RELEVANT COMPONENTS	AIR FREE AS RECEIVED MOLE FRACTION	AIR FREE AS RECEIVED (ppm)	AIR & ACID GAS FREE MOLE FRACTION	AIR FREE AS RECEIVED LIQUID VOLUMES (mL / m ³)
49.28	Cyclopentane	0.00000	0	0.00000	0.0000
68.73	n-Hexane	0.00000	0	0.00000	0.0000
71.83	Methylcyclopentane	0.00000	0	0.00000	0.0000
80.06	Benzene	0.00000	0	0.00000	0.0000
80.78	Cyclohexane	0.00000	0	0.00000	0.0000
99.24	2,2,4-Trimethylpentane	0.00000	0	0.00000	0.0000
100.94	Methylcyclohexane	0.00000	0	0.00000	0.0000
110.61	Toluene	0.00000	0	0.00000	0.0000
136.16	Ethylbenzene	0.00000	0	0.00000	0.0000
138.33; 139.09	m&p-Xylene	0.00000	0	0.00000	0.0000
144.42	o-Xylene	0.00000	0	0.00000	0.0000
169.34	1,2,4-Trimethylbenzene	0.00000	0	0.00000	0.0000

